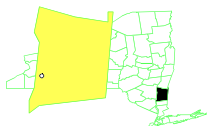


VESTAL WATER SUPPLY WELL 4-2 NEW YORK

EPA ID# NYD980652267



EPA REGION 2
CONGRESSIONAL DIST. 26
Broome County
5 miles southwest of the
City of Binghamton

Site Description

The Vestal Water Supply Well 4-2 site is a municipal well contaminated by a bulk chemical handling facility located on the west side of Prentice Road in the Town of Vestal. After contamination was discovered in 1980, the well was taken out of service. The well was returned to service in 1988. The well had been contaminated with 1,1,1-trichloroethane (TCA), trichloroethene (TCE) and tetrachlorethene (PCE). Similar contaminants were detected in Well 1-1, which is located in Water District 1. The two were originally listed as one site and were later separated into two sites: Vestal Water Supply Well 1-1 and 4-2. This was done as a result of discovering that separate plumes of contaminated groundwater were emanating from two different sources. Approximately 27,000 people reside within 3 miles of the site, and 17,000 people rely on public water supplies for drinking water.

Site Responsibility: This site has been addressed through a combination of State and Potentially Responsible Party (PRP) actions.

NPL LISTING HISTORY

Proposed Date: 12/01/82

Final Date: 09/01/83

Deletion Date: 09/30/99

Threats and Contaminants



Contamination of the Well 4-2 posed a threat to human health, prior to its being removed from service in 1980. A water treatment system was installed at the wellhead in September 1988 enabling the well to be returned to service.

Cleanup Approach

The site has been addressed in two stages: an initial action and a long-term remedial phase focusing on cleanup of the entire site.

Response Action Status



Initial Action: Discovery of contamination in Well 4-2 in 1980 led to its removal from service. In 1988, the Town constructed an air stripping system with carbon filtration for backup.



Entire Site: The State signed a settlement agreement with three potentially responsible parties in 1985, which outlined cleanup actions and a series of groundwater standards that must be achieved. The agreement also required the PRPs to pay the Town of Vestal \$633,000 for cleanup at the site. In addition to the installation of the carbon unit and air stripper at Well 4-2, the Town removed contaminated soils from the source area. The contaminated soils were in and around a leach pit at Monarch Chemical Corporation which is located approximately 200 feet south and upgradient of the Well 4-2. Approximately 26 cubic yards were removed. Assuming a conversion factor of 1.6 tons per cubic yard, 42 tons of contaminated material were removed.

Cleanup Progress



The Town has installed a carbon unit and air stripper at the Vestal 4-2 water supply well. The installation of a groundwater treatment system at the wellhead, removal of contaminated soils from the source area (42 tons) and natural attenuation processes have reduced concentrations of contaminants entering Well 4-2. Approximately five billion gallons of contaminated water have been treated since 1988. Levels of contaminants in the influent (untreated groundwater) to Well 4-2 have declined to levels which are below drinking water standards. Treatment of the water prior to distribution ensures that residents receive a safe supply of drinking water.

The site was considered construction complete in September 1998 and deleted from the NPL in September 1999.